

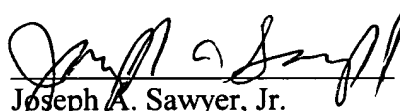
REMARKS

Applicant has amended claim 13 to be of independent form and include the limitations of its base claim, claim 12, and claim 12 has been cancelled. Accordingly, claims 1-11 and 13-21 remain pending in the present application. Applicant respectfully submits that no new matter has been added by these amendments.

Applicants' attorney believes this application in condition for allowance. Should any unresolved issues remain, Examiner is invited to call Applicants' attorney at the telephone number indicated below.

Attached hereto and captioned "Version with Markings to Show Changes Made" is a marked-up version of the changes made to the claims by the current amendment.

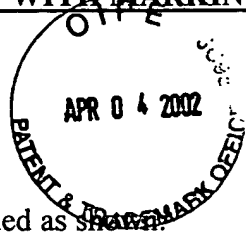
Respectfully submitted,


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VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the Claims:

Claim 13 has been amended as shown:



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13. (Amended) [The method of claim 12 wherein the data signal translation comprises] A method for remotely controlling a plurality of audio/visual (A/V) devices within a personal computer (PC) utilizing a remote control, the remote control having a plurality of buttons, the method comprising the steps of:

(a) providing a data signal based upon activating at least one of the plurality of buttons from the remote control, the at least one button for controlling one of the plurality of A/V devices; and

(b) translating the data signal to control one of the plurality of A/V devices by providing one of a plurality of CD/DVD and TV/DVR functions.

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**3. United States Patent 6,205,318; Schindler, et al.
Power management controller for computer system**

Schindler discloses an entertainment system that has a personal computer as the heart of the system with a large screen VGA quality monitor as the display of choice. The system has digital satellite broadcast reception, decompression and display capability with multiple radio frequency remote control devices which transmit self identifying signals and have power adjustment capabilities. These capabilities are used to provide context sensitive groups of keys which may be defined to affect only selected applications running in a windowing environment. In addition, the remote control devices combine television and VCR controls with standard personal computer keyboard controls. An applet running on the personal computer receives power commands from the remote control devices and issues power mode commands to video and audio cards to emulate on/off functions of standard televisions. A keyboard remote also integrates a touchpad which is food contamination resistant and may also be used for user verification. Included in the system is the ability to recognize verbal communications in video signals and maintain a database of such text which is searchable to help identify desired programming in real time.

Applicant respectfully submits that Schindler includes a discussion of various features of a multipurpose computer system that is provided with circuitry to control consumer electronics. While multiple A/V devices are represented as being coupled to a PC, there is no teaching or suggestion of connection hardware/tuner box receiving data signals from a remote control device to access control of the plurality of A/V devices as recited in the claims. Further, while the reference does discuss remote control devices in the form of a keyboard and a handheld device, the utilization of the remote controls with application programs in the PC does not teach or

suggest button mapping to predetermined key codes as recited in the claims. Rather, since there are multiple remotes, a predetermined association of remote device(s) with each application programs in the PC is required in order to have control mechanism(s) of the remote device(s) function with the application. Applicant respectfully submits that this need to associate remote devices in these references fails to teach or suggest mapping of each button on a remote control device to predetermined key codes that are the basis for data signal translation to device functions to control operations of a plurality of A/V devices as recited in the claims. Additionally, there is nothing to teach or suggest the provision of one of a plurality of CD/DVD and TV/DVR functions in data signal translation as recited in the claims.

**4. United States Patent 6,111,569; Brusky, et al.
Computer-based universal remote control system**

Brusky discloses a programmable remote control implemented using a standard personal computer. The computer controls the output of, for example, an infrared transmitter to control various devices such as televisions, stereos, videocassette recorders or cd players. The computer can alter the type of commands issued from the transmitter based upon a command structure stored on a hard disk within the computer. This database is updatable from a variety of sources.

Brusky describes a computer-based system for the remote control of a separate electronic device to produce a universal remote control device. The reference discloses the use of the hard drive of the computer system to store a database that can be updated as needed to accommodate new types of devices or new model types, which would avoid the storage and update limitation of prior art universal remote control devices. There is nothing to teach or suggest a plurality of A/V devices coupled to the PC as recited in the claims. Rather, Brusky mentions merely that

commands can be sent via an infrared transmitter in the PC to devices other than the illustrated TV. Further, there is nothing to teach or suggest connection hardware/tuner box. Thus, there is nothing to teach or suggest the transmission of data signals from the remote control to the connection hardware/tuner box to access control of the plurality of A/V devices as recited in the claims. Additionally, there is nothing to teach or suggest the provision of one of a plurality of CD/DVD and TV/DVR functions in data signal translation as recited in the claims.

5. United States Patent 5,995,155; Schindler, et al.
Database navigation system for a home entertainment system

Schindler discloses an entertainment system that has a personal computer as the heart of the system with a large screen VGA quality monitor as the display of choice. The system has digital satellite broadcast reception, decompression and display capability with multiple radio frequency remote control devices which transmit self identifying signals and have power adjustment capabilities. These capabilities are used to provide context sensitive groups of keys which may be defined to affect only selected applications running in a windowing environment. In addition, the remote control devices combine television and VCR controls with standard personal computer keyboard controls. A keyboard remote also integrates a touchpad which is food contamination resistant and may also be used for user verification. Included in the system is the ability to recognize verbal communications in video signals and maintain a database of such text which is searchable to help identify desired programming in real time.

Applicant respectfully submits that Schindler includes a discussion of various features of a multipurpose computer system that is provided with circuitry to control consumer electronics. While multiple A/V devices are represented as being coupled to a PC, there is no teaching or

suggestion of connection hardware/tuner box receiving data signals from a remote control device to access control of the plurality of A/V devices as recited in the claims. Further, while the reference does discuss remote control devices in the form of a keyboard and a handheld device, the utilization of the remote controls with application programs in the PC does not teach or suggest button mapping to predetermined key codes as recited in the claims. Rather, since there are multiple remotes, a predetermined association of remote device(s) with each application programs in the PC is required in order to have control mechanism(s) of the remote device(s) function with the application. Applicant respectfully submits that this need to associate remote devices in these references fails to teach or suggest mapping of each button on a remote control device to predetermined key codes that are the basis for data signal translation to device functions to control operations of a plurality of A/V devices. Additionally, there is nothing to teach or suggest the provision of one of a plurality of CD/DVD and TV/DVR functions in data signal translation as recited in the claims.

6. United States Patent 5,920,308; Kim

**Keyboard with a wireless remote control receiver and
a method of redefining a key function for remote control**

Kim discloses a keyboard for a personal computer system that has a remote control function. The personal computer system has a keyboard unit for communicating with a main computer unit by using signal lines connected therebetween and generating a re-send signal when a communication request signal for remote control is provided from the main computer unit. A communication control section controls a communication of the keyboard unit with the main computer unit in response to the control signal, so as to allow the remote control receiver to

receive information for redefining of a key function for the remote control. The keyboard can redefine a key function for remote control in accordance with several sorts of programs.

Kim discloses a keyboard for a PC that has a remote control function and the reprogramming of keys on the keyboard via key maps. There is nothing to teach or suggest a plurality of A/V devices coupled to a PC as recited in the claims. Further, there is nothing to teach or suggest a connection hardware/tuner box as recited in the claims. Thus, there is nothing to teach or suggest the transmission of data signals wirelessly from the remote control to the connection hardware/tuner box to access control of the plurality of A/V devices as recited in the claims. Additionally, there is nothing to teach or suggest the provision of one of a plurality of CD/DVD and TV/DVR functions in data signal translation as recited in the claims.

**7. United States Patent 5,650,831; Farwell
Adjustable power remote control drive**

Farwell discloses an entertainment system that has a personal computer as the heart of the system with a large screen VGA quality monitor as the display of choice. The system has digital satellite broadcast reception, decompression and display capability with multiple radio frequency remote control devices which transmit self identifying signals and have power adjustment capabilities. These capabilities are used to provide context sensitive groups of keys which may be defined to affect only selected applications running in a windowing environment. In addition, the remote control devices combine television and VCR controls with standard personal computer keyboard controls. A keyboard remote also integrates a touchpad which is food contamination resistant and may also be used for user verification. Included in the system is the ability to

recognize verbal communications in video signals and maintain a database of such text which is searchable to help identify desired programming in real time.

Applicant respectfully submits that Schindler includes a discussion of various features of a multipurpose computer system that is provided with circuitry to control consumer electronics. While multiple A/V devices are represented as being coupled to a PC, there is no teaching or suggestion of connection hardware/tuner box receiving data signals from a remote control device to access control of the plurality of A/V devices as recited in the claims. Further, while the reference does discuss remote control devices in the form of a keyboard and a handheld device, the utilization of the remote controls with application programs in the PC does not teach or suggest button mapping to predetermined key codes as recited in the claims. Rather, since there are multiple remotes, a predetermined association of remote device(s) with each application programs in the PC is required in order to have control mechanism(s) of the remote device(s) function with the application. Applicant respectfully submits that this need to associate remote devices in these references fails to teach or suggest mapping of each button on a remote control device to predetermined key codes that are the basis for data signal translation to device functions to control operations of a plurality of A/V devices. Additionally, there is nothing to teach or suggest the provision of one of a plurality of CD/DVD and TV/DVR functions in data signal translation as recited in the claims.

**8. United States Patent 5,283,819; Glick, et al.
Computing and multimedia entertainment system**

Glick discloses a remotely controllable computing and multimedia entertainment system that includes a personal computer having an entertainment circuit made up of a radio frequency

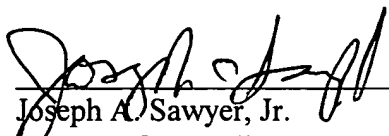
circuit, a television circuit, and an audio multimedia circuit. A remote control circuit provides programmable control of the entertainment circuit to select among computer function operation, television and radio operation, and audio operation. An analog mixing circuit within the audio multimedia circuit provides mixing for a plurality of analog audio signals. A telephone circuit (44) integrates data, fax, and voice telephone signals in the entertainment circuit. A volume control circuit within the audio multimedia circuit provides varying volume, bass, and tone levels for each audio signal received by the analog mixing circuit. The analog audio signals received by analog mixing circuit may include monaural and stereo audio signals.

Glick discloses a PC-based multimedia center. The remote control device in Glick operates with the PC via a remote control circuit in the PC. The remote control circuit utilizes an 8-bit processor that monitors an infrared detector for unique coded values that control operations of a host interface to the host processor and causes interrupts in the host processor for servicing. Glick neither teaches or suggests mapping each button on a remote control device to predetermined key codes and translating data signals from a selected button to device functions based on the key codes to control operations of a plurality of A/V devices as recited in the claims. Further, there is nothing to teach or suggest connection hardware/tuner box for receiving the data signals from the remote control device as recited in the claims. Additionally, there is nothing to teach or suggest the provision of one of a plurality of CD/DVD and TV/DVR functions in data signal translation as recited in the claims.

6. Fee

Attached is a check in the amount of \$130.00. Please charge any additional fees required by this paper or credit any overpayment in the manner authorized above. A duplicate of this paper is attached.

Respectfully submitted,



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